

FIG. 1

```

7371 cacaggaaac agctatgacc atgattacgc caagctcgaa attaacccctc actaaaggga acaaaagctg ggtaccgggc cccccctcga ggctcgacggt atcgatagcc
7481 gcctaatagc gogggctttt ↑ ttttgatatac gaattaccgc ggaattcaga tctttgatca aggatctgtc agctgggttca actagcggtg gtcaaaactgt tagtaataaa

      OLIGO 9
7591 acttattggt ttgatgttcg gcttaaggat ggaaggattt ttcaataaaa aaagtaaaaa ataagttaa ctggctgaca ttatttttac tttgctatat aatttaaccag
7701 taaactaatt atggaggaca aaatactatg antttagcaa atcaaatcga ccagtttctt ggggcaatta tgcagtttgc anaaacaag catgaaatat tactcggcga
      >>..... zitr .....
7811 atgcnaaagt aatgtttaagc taacaagcac gcaagaacat atcttaatga ttctagctgc agaggtttcg acaaacgcga gaattgccga gcaactcaag atttcgccag
      >..... zitr .....
7921 cagcggtaac taaagctctc aaaaattac aagagcaaga actgattaaa tcaagtcggg caacaatga cgaacgcgta gtctttgga gcctgacaga aaaagcaatt
      >..... zitr .....
8031 ccagttgcta aagaacatgc tgctcatcat gagaaactc taagtaccta ccaagaatta ggagacaaat ttactgacga agaacaacaaa gtgataagtc aattcttctc
      >..... zitr .....
8141 agtacttacc gaggagtttc gatgaagaaa atattgatgt tatttgctat tccggcagtt ttacttcttg ctgggttgta aaaaacagca gacaaaccag aagttgtgac
      >>..... zits .....
      >..... zitr .....>>

      OLIGO MUT
8251 aacttttgag ccgatgtatg aatttacgaa agcgattggt ggagataagg ttaaaattga aaatattggt ccggcgaaatc aagaagtcca cgaatttgaa ccgagtgcca
      >..... zits .....
8361 ttacgaaaaa aatggtagaa aatgcaaga aaattgaagt cgagtttgac aaaggtcaaa gaactgataa atatggcgt ggcttagcgt atatttatgc tgatgaaaa
      >..... zits .....

```

FIG. 2

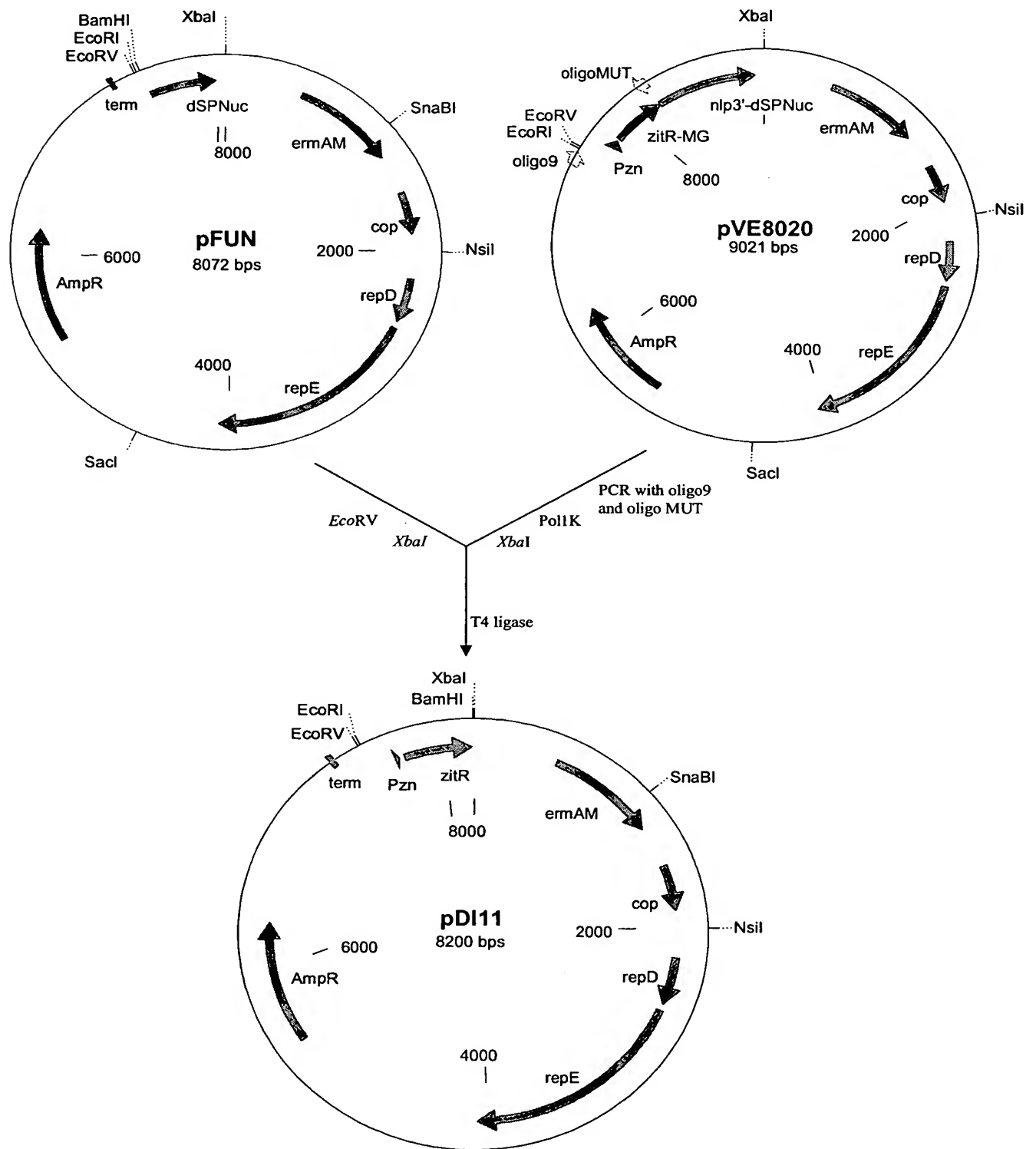


FIG. 3a

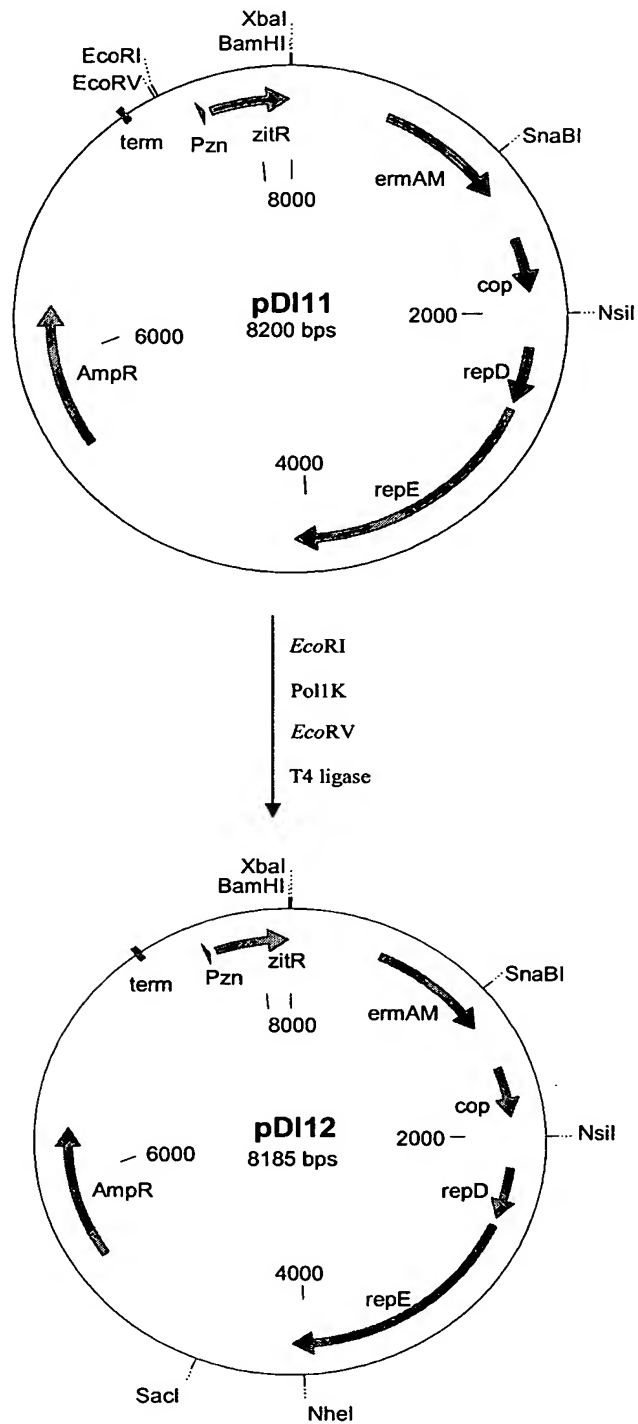


FIG. 3b

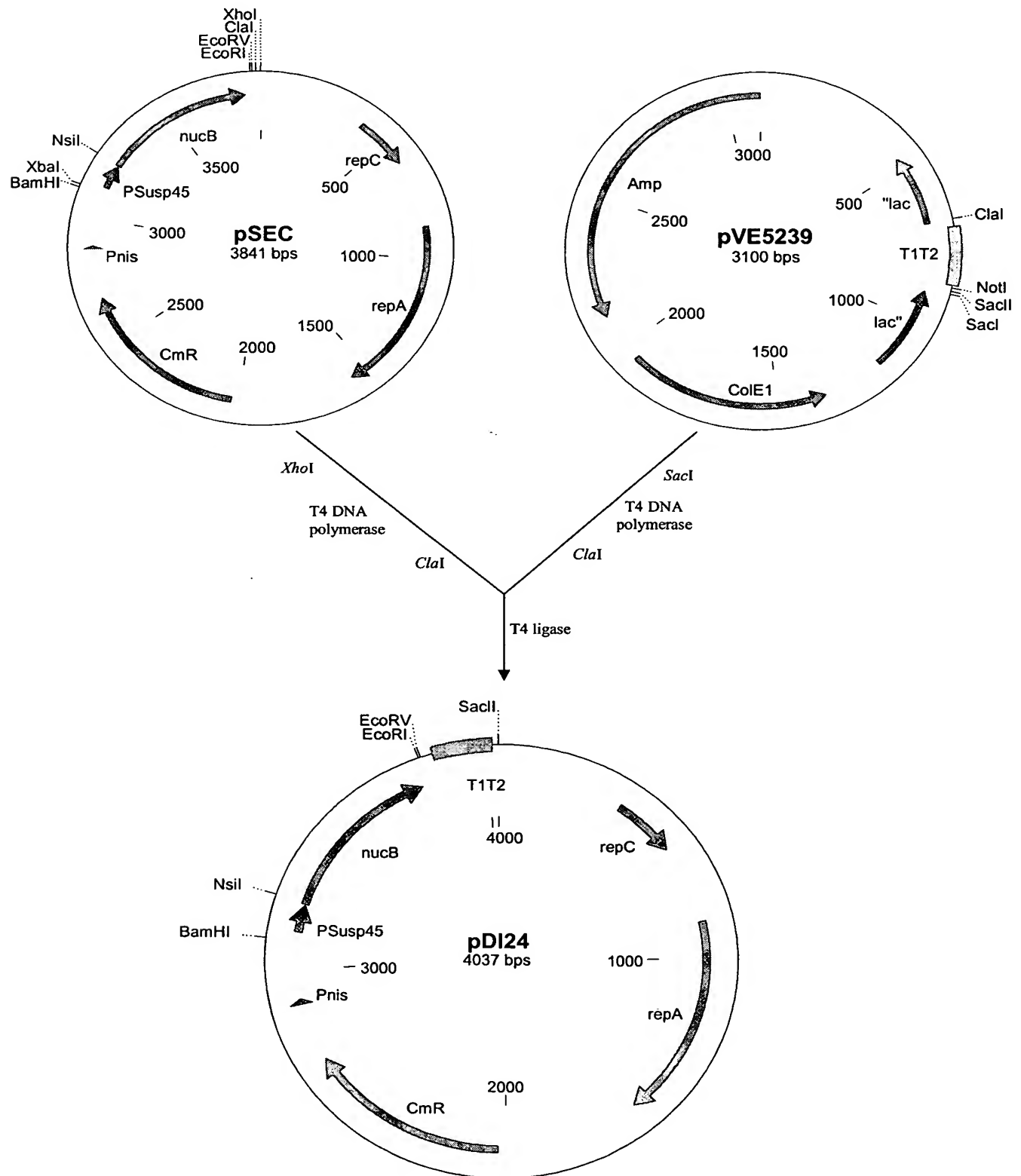


FIG. 4

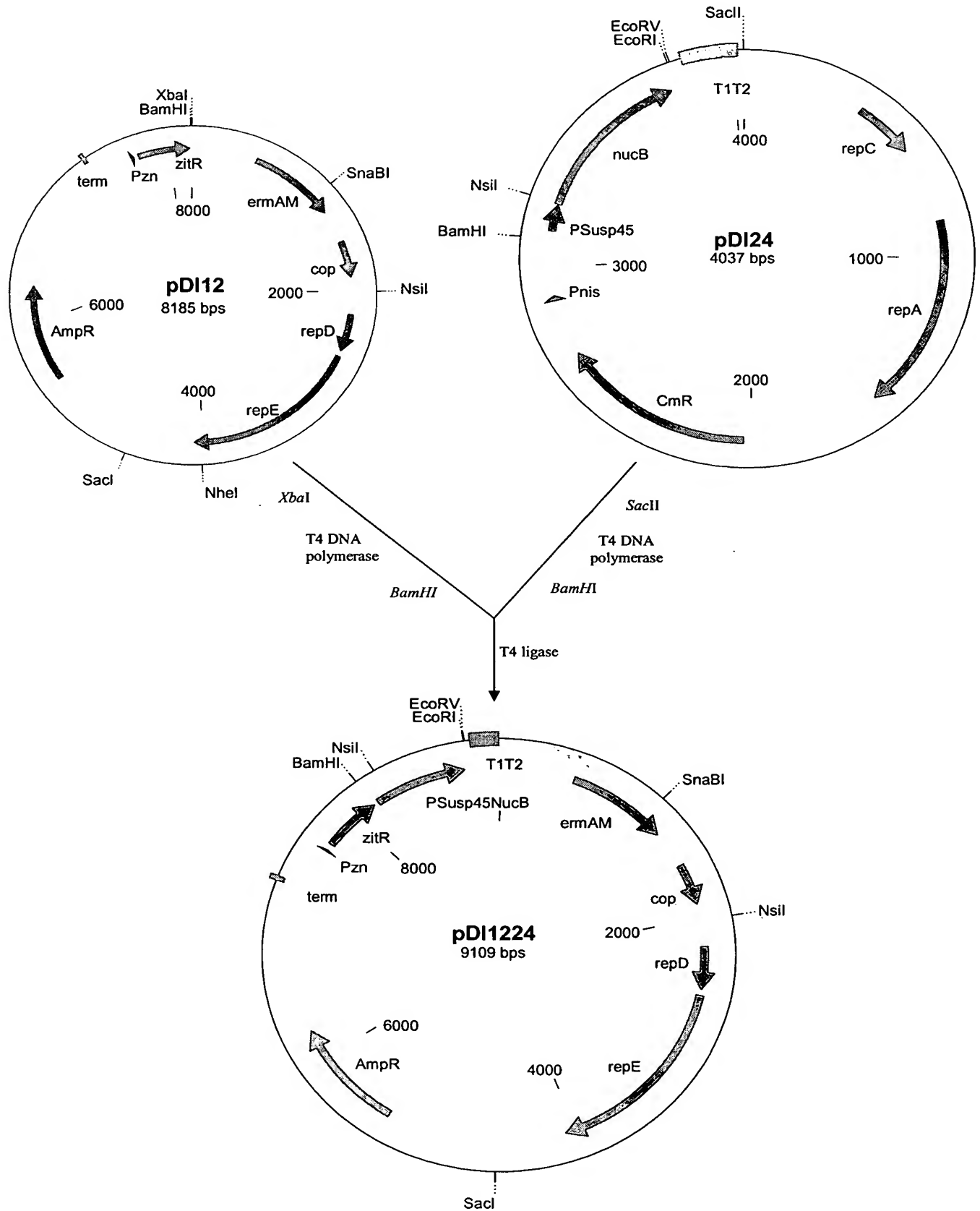
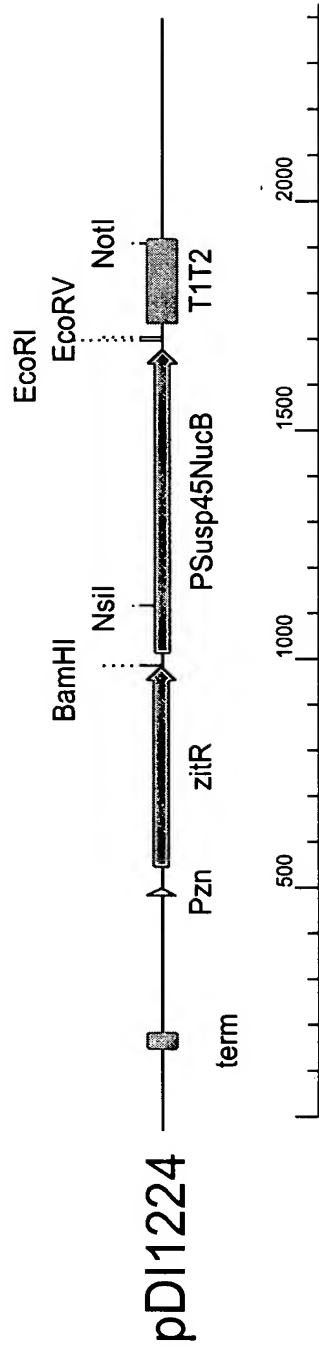


FIG. 5



p_{zn}-zitR system

FIG. 6

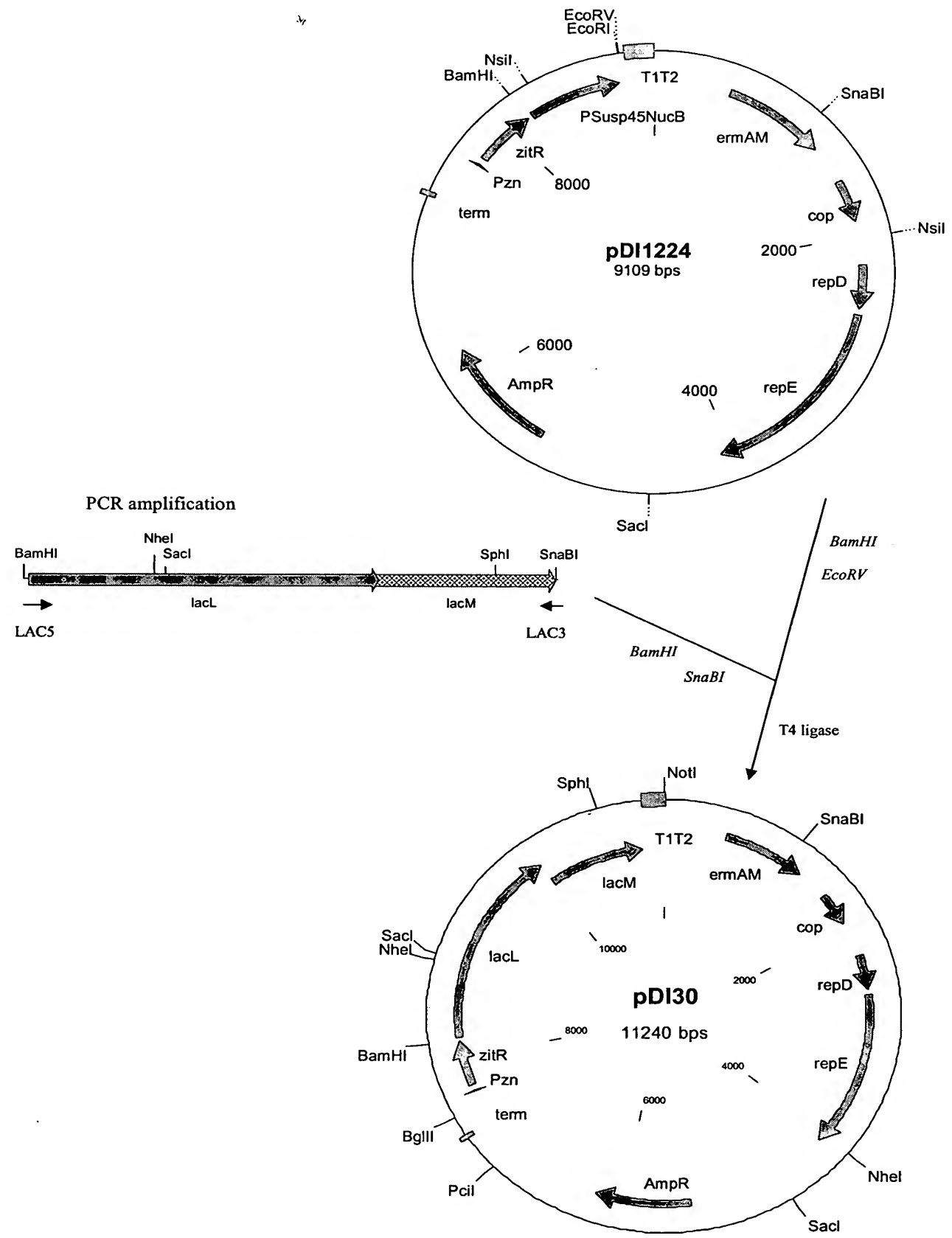


FIG. 7

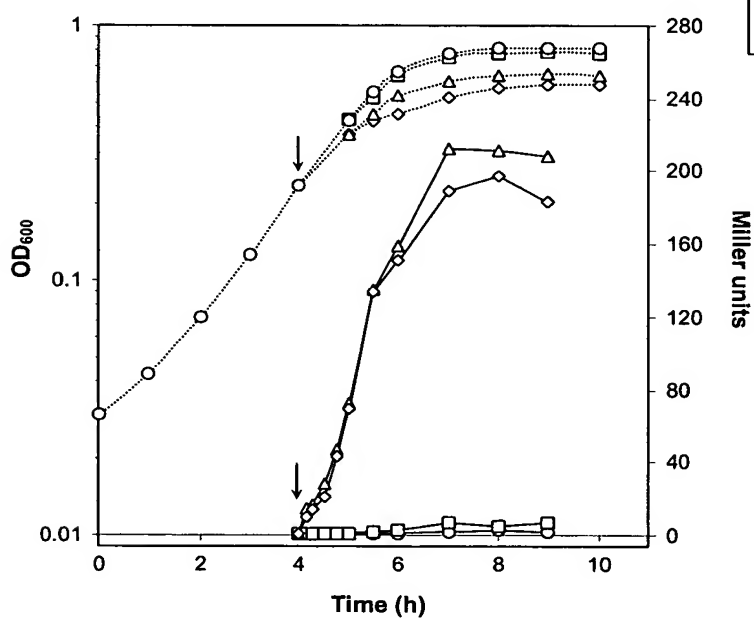
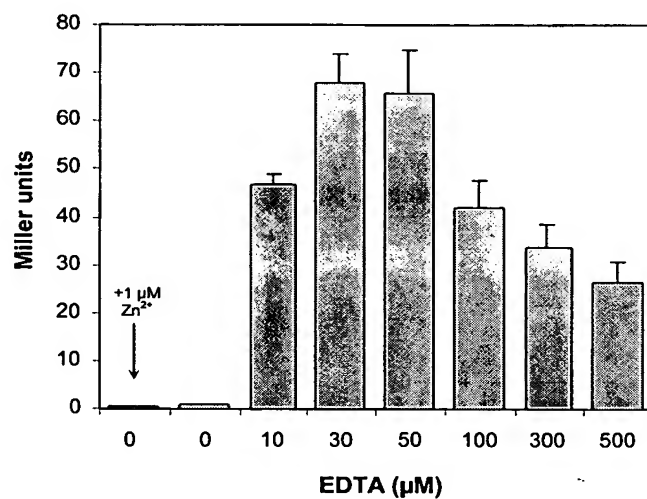


FIG. 8